

A NEW GENUS AND A NEW SPECIES OF METRODORIDAE  
(ORTHOPTERA) FROM CHINA

ZHENG Zhe Min<sup>1</sup>, WEI Zhao Ming<sup>1</sup>, JIANG Guo Fang<sup>2</sup>  
1. Institute of Zoology, Shaanxi Normal University, Xi'an 710062, China  
2. College of Life Science, Nanjing Normal University, Nanjing 210007, China

**Abstract** A new genus and a new species of Metrodoridae are described as new to science, namely *Macromotettixoides* gen. nov. and *Macromotettixoides jiuwanshanensis* sp. nov. Type specimens are deposited in the Institute of Zoology, Shaanxi Normal University.  
**Key words** Orthoptera, Metrodoridae, new genus, new species.

In July 2003, the insects of Mt. Jiuwan of Guangxi Province were investigated. Among the specimens of Tetrigoidea, there are a new genus and a new species of Metrodoridae. Type specimens are deposited in the Institute of Zoology, Shaanxi Normal University.

*Macromotettixoides* gen. nov.

Size small and stout. Vertex wide, its width two times the width of an eye, anterior margin arched. In profile, vertex and front ridge forming a right angl. Antennae filiform, inserted below the lower margin of eyes. Pronotum tectiform, median keel high and distinct, anterior margin obtuse angled, apex reaching the top of hind femur or not. Humeral apex ridge and lower margin of pronotum connected behind the middle of lower margin of pronotum. Posterior angles of lateral lobes of pronotum turning outwardly, with its apex truncate, posterior margin of lateral lobe with one concave. Tegmina and wings absent. Lower margins of fore and middle femora straight. Ovipositor long and narrow.

Type species: *Macromotettixoides jiuwanshanensis* sp. nov.

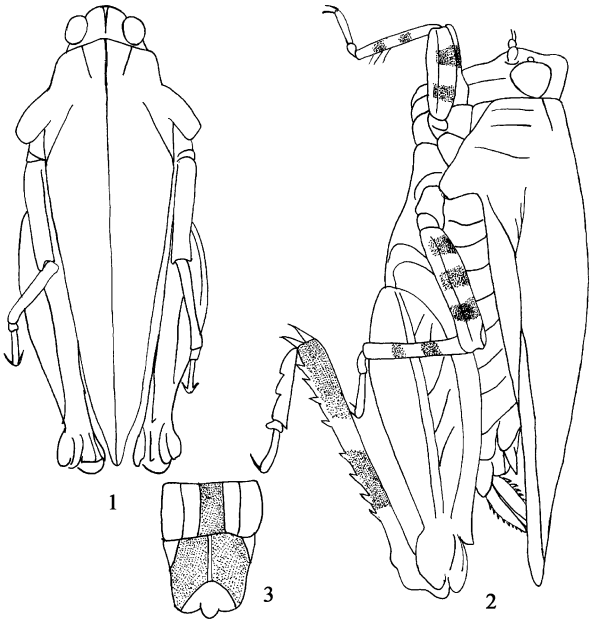
This new genus is alied to *Macromotettix* Gunther, 1939, but can be separated by the characters given in Table 1.

**Table 1.** Difference between *Macromotettixoides* gen. nov. and *Macromotettix* Gunther, 1939.

	<i>Macromotettixoides</i> gen. nov.	<i>Macromotettix</i>
Posterior margin of lateral lobe of pronotum	With 1 concavity	With 2 concavity
Tegmina	Absent	Present
Anterior margin of pronotum	Obtusely angular	Straight

*Macromotettixoides jiuwanshanensis* sp. nov.  
(Figs. 1-3)

Female. Size small and stout. Vertex very wide, its width 2. 1 times the width of an eye, anterior margin arched, median keel distinct; in profile, vertex and frontal ridge forming a right angle; frontal ridge concave between eyes and protruding archly between antennae; width of longitudinal sulcus of frontal ridge equal to the width of basal segment of antennae. Antennae filiform, inserted below the lower margin of eyes. Pronotum tectiform, median keel high and distinct, upper margin of pronotum slightly arched in



Figs. 1-3. *Macromotettixoides jiuwanshanensis* sp. nov. 1. Body, dorsal view. 2. Body, lateral view. 3. Subgenital plate of female, ventral view.

profile, anterior margin of pronotum wide obtuse angled, lateral keels slightly constrict backward in pronotum; humeral angle obtusely angular; hind process cone shaped, acute apex reaching top of hind femur or not, lateral lobes of pronotum turning outside, posterior angles protruding downward, with apex truncate, posterior margin of lateral lobe with one concave; humeral apex ridge and lower margin of pronotum connected behind the middle of lower margin of pronotum. Tegmina and wings absent. Lower margin of fore and middle femora straight, hind femur stout, preknee teeth rightangle and knee teeth obtuse; outer side of hind tibia with 8 spines, inner side with 6 spines; length of first segment of hind tarsi longer than third; third pulvillus of first tarsus slightly bigger than first and second, apices of pulvilli obtuse. Ovipositor long, length of upper valvulae 3.3 times its width, upper and lower valvulae with slender sawteeth. Length of subgenital plate slightly longer than its width, hind margin with a triangular process.

Body dark brown, fore and middle femora and tibiae with two or three dark transverse spots. Hind tibiae yellowish brown, outer part of lower side black.

## 中国短翼蚱科一新属及一新种 (直翅目)

郑哲民<sup>1</sup> 魏朝明<sup>1</sup> 蒋国芳<sup>2</sup>

1. 陕西师范大学动物研究所 西安 710062

2. 南京师范大学生科院 南京 210007

**摘要** 记述采自广西壮族自治区九万大山地区短翼蚱科 Metrodoridae 1 新属拟大磨蚱属 *Macromotettixoides* gen. nov. 及 1 新种九万山拟大磨蚱 *Macromotettixoides jiuwanshanensis* sp. nov., 新属近似于大磨蚱属 *Macromotettix* Gunther, 主要区别为: 1) 前胸背板侧片后缘仅具 1 个凹陷; 2) 缺前、后翅; 3) 前胸背板前缘钝角形突出。

**模式种:** 九万山拟大磨蚱 *Macromotettixoides jiuwanshanensis* sp. nov. 模式标本保存于陕西师范大学动物研究所。

**关键词** 直翅目, 短翼蚱科, 新属, 新种.

**中图分类号** Q969.26

Sterna of abdomen black. Subgenital plate black, apex thin color.

**Male.** Size smaller than female, subgenital plate short cone shaped, other characters and color same as female.

Length of body: ♂ 10~12 mm, ♀ 12~14 mm.

Length of pronotum: ♂ 9~11 mm, ♀ 11~13 mm.

Length of hind femur: ♂ 6~8 mm, ♀ 8~9 mm.

Holotype ♀, Guangxi, Locheng, 430~600 m, 27 July 2003, JIANG Guo Fang. Paratypes 2 ♂♂, 4 ♀♀, same data as the holotype; 3 ♂♂, 1 ♀, Guangxi, Rongshui, 1 200~1 600 m, 6 Aug. 2003, JIANG Guo Fang.

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九万山拟大磨蚱, 新种 *Macromotettixoides jiuwanshanensis* sp. nov. (图 1~3)

体长: ♂ 10~12 mm, ♀ 12~14 mm。前胸背板长: ♂ 9~11 mm, ♀ 11~13 mm。

后足股节长: ♂ 6~8 mm, ♀ 8~9 mm。

正模♀, 广西罗城 (平英保护站), 430~600 m, 2003-07-27; 蒋国芳采; 副模 2 ♂♂, 4 ♀♀, 同正模, 3 ♂♂, 1 ♀, 广西融水, 1 200~1 600 m, 2003-08-06, 蒋国芳采。